

920190-95749

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE APPLICATION OF)
Michael John Sargeant)
SERIAL NO: To Be Assigned) Customer number: 23644
FILED: Herewith)
FOR: Containment System for Computer)
Equipment)

CLAIM FOR PRIORITY

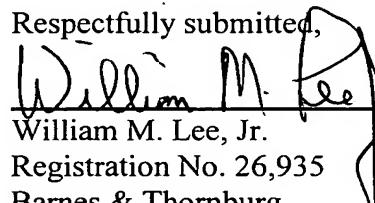
Honorable Director of Patents and Trademarks
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Under the International Convention, for the purposes of priority, applicant claims the benefit of United Kingdom Application No. 0309706.0, filed 29 April 2003.

A certified copy of said application will be submitted herewith.

March 31, 2004

Respectfully submitted,

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INVESTOR IN PEOPLE

The Patent Office
Concept House
Cardiff Road
Newport
South Wales
NP10 8QQ

I, the undersigned, being an officer duly authorised in accordance with Section 74(1) and (4) of the Deregulation and Contracting Out Act 1994, to sign and issue certificates on behalf of the Comptroller-General, hereby certify that annexed hereto is a true copy of the documents as originally filed in connection with the patent application identified therein together with the Statement of inventorship and of right to grant of a Patent (Form 7/77), which was subsequently filed.

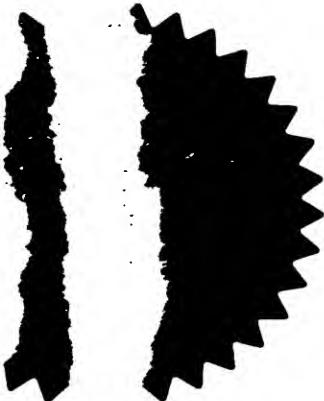
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Signed

Dated 16 February 2004



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THE PATENT OFFICE

C

29 APR 2003

The Patent Office

Cardiff Road
Newport
Gwent NP9 1RH

1. Your reference

NEWPORT

C1508

2. Patent application number

(The Patent Office will fill in this part)

0309706.0

29 APR 2003

3. Full name, address and postcode of the or of each applicant (underline all surnames)

Patents ADP number (if you know it)

FUJITSU SERVICES LIMITED
26 Finsbury Square, London EC2A 1SL

If the applicant is a corporate body, give the country/state of its incorporation

8347795002

E

ENGLAND

4. Title of the invention

CONTAINMENT SYSTEM FOR
COMPUTER EQUIPMENT

5. Name of your agent (if you have one)

D C Guyatt
Intellectual Property Department
Fujitsu Services Limited
Observatory House
Windsor Road
Slough SL1 2EY

Patents ADP number (if you know it)

8347795003

6. If you are declaring priority from one or more earlier patent applications, give the country and the date of filing of the or of each of these earlier applications and (if you know it) the or each application number

Country Priority application number
(if you know it) Date of filing
(day / month / year)

7. If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application

Number of earlier application

Date of filing
(day / month / year)

8. Is a statement of inventorship and of right to grant of a patent required in support of this request? (Answer 'Yes' if:

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9. Enter the number of sheets for any of the following items you are filing with this form.
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Continuation sheets of this form

Description	4
Claim(s)	1
Abstract	1
Drawing(s)	5 - 5 RM

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Priority documents	
Translations of priority documents	
Statement of inventorship and right to grant of a patent (Patents Form 7/77)	2
Request for preliminary examination and search (Patents Form 9/77)	1
Request for substantive examination (Patents Form 10/77)	
Any other documents (please specify)	FREE SHEET FS 1

11.

I/We request the grant of a patent on the basis of this application.

Signature

Date 28/4/2003

12. Name and daytime telephone number of person to contact in the United Kingdom

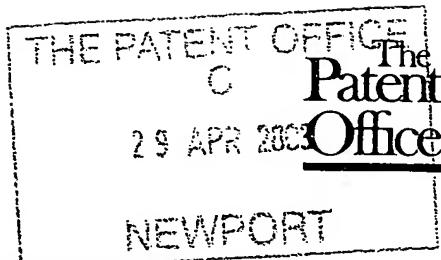
D. C. Guyatt
01753 604388

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The Patent Office

Cardiff Road
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right to grant of a patent

1. Your reference C1508

2. Patent application number
(if you know it)

0309706.0

29 APR 2003

3. Full name of the or of each applicant

FUJITSU SERVICES LIMITED

4. Title of the invention

CONTAINMENT SYSTEM FOR COMPUTER EQUIPMENT

5. State how the applicant(s) derived the right
from the inventor(s) to be granted a patent

BY REASON OF EMPLOYMENT

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I/We believe that the person(s) named over the page (and on
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Signature


Date
28/4/2003
8. Name and daytime telephone number of
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D.C. Guyatt 01753 604388

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Enter the full names, addresses and postcodes of the
inventors in the boxes and underline the surnames

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Patients ADP number (if you know it): 8621252301

Patients ADP number (if you know it):

Containment system for computer equipment

This invention relates to a containment system for computer equipment.

In certain applications, such as on sea vessels, there is a requirement for computer equipment to be mounted securely, so as to retain it in the event of shock or vibration. The object of the present invention is to provide a novel containment system for this purpose.

Summary of the invention

According to the invention, there is provided a containment system for equipment comprising at least a computer module and a display screen, the system comprising:

- a first containment unit, comprising a plurality of sections removably fastened together to form a first enclosure for containing the computer module, with a plurality of fastening holes for allowing the first containment unit to be fastened to a fixed object, and with a pair of strengthening flanges extending parallel to each other in an outward direction; and
- a second containment unit comprising a plurality of sections removably fastened together to form a second enclosure for containing the display screen, the second enclosure being tiltably mounted on a base to allow the position of the display screen to be adjusted, and the base having a plurality of fastening holes for allowing it to be fastened to a fixed object;
- wherein the second containment unit is dimensioned to be nestable between the strengthening flanges of the first containment unit.

Brief Description of the Drawings

One containment system in accordance with the invention will now be described by way of example with reference to the accompanying drawings.

Figures 1a to 1c are plan, front and side views of a first part of a first containment unit.

Figures 2a to 2c are plan, front and side views of a second part of the first containment unit.

Figures 3a to 3c are plan, front and side views of a first part of a second containment unit.

Figures 4a to 4c are plan, front and side views of a second part of the second containment unit.

Figure 5 shows how the first and second parts of the first containment unit fit together.

Figure 6 shows how the first and second parts of the second containment unit fit together.

Figure 7 shows how the second containment unit nests with the first containment unit.

Figure 8 shows a possible modification of the first containment unit.

Description of an embodiment of the invention

The containment system comprises a computer module containment unit (figures 1, 2 and 5), and display containment unit (figures 3, 4 and 6). The system preferably also includes further containment units (not shown) for holding a keyboard and mouse.

The computer module containment unit consists of a housing 10 (figure 1) and a closure member 20 (figure 2).

The housing 10 is formed from two sheet metal components 11 and 12, spot-welded together to form three sides of a generally rectangular box structure. In this example the box is

dimensioned to receive a computer module (not shown) approximately 400 x 300 x 100 mm in size. L-shaped plates 13 are spot-welded to the component 11 to increase its rigidity. Cut-outs 14 give access to the computer module, and also to reduce the weight of the unit. Integral lugs 15 at the top and bottom of the box prevent longitudinal movement of the computer module. Rubber pads (not shown), glued to the lugs and elsewhere, hold the computer module securely.

The closure member 20 is a single sheet metal component, consisting of a rectangular panel 21 with two triangular flanges 22 extending parallel to each other at right angles to the rectangular panel. These strengthen and provide rigidity for the containment unit. Cut-outs 23 provide access and to reduce weight.

As shown in figure 5, the computer module containment unit 50 is assembled by locating the computer module (not shown) in the housing 10 and then removably fastening the closure member 20 to the housing 10 by bolts 51 at top and bottom, to provide the fourth side of the box. The whole unit can be secured to a fixed surface (e.g. a desk), by means of screws through mounting holes 16.

The display containment unit consists of an adjustable stand 30 (figure 3) and a bezel 40 (figure 4).

The adjustable stand 30 comprises a sheet metal back plate 31, mounted on a base 32 by a lockable tilt mechanism 33. In this example, the back plate is dimensioned to receive an LCD display unit (not shown), approximately 400 x 300 x 50 mm in size. Cut-outs 34 are provided for access to the back of the display unit and to reduce weight. The unit can be screwed down to a fixed surface (e.g. a desk), by means of mounting holes 35 in the base.

The bezel 40 is formed from sheet metal, and comprises a rectangular frame-shaped portion 41 with four integral lugs 42.

Referring to figure 6, the display containment unit 60 is assembled by locating the display unit (not shown) on the back plate 31, and then removably fastening the bezel 40 to the back plate 31, by screws 61, so as to hold the display unit firmly in place.

Referring to figure 7, the display containment unit 60 is designed to be nestable between the triangular flanges 22 of the computer module containment unit 50. This reduces the overall envelope of the assembly, ensuring that it fits into a compact cube.

Some possible modifications

It will be appreciated that many modifications may be made to the system described above without departing from the scope of the present invention. For example, the system may be adapted to hold different shapes and sizes of computer module and display unit.

Referring to figure 8, in one particular modification the top horizontal section 52 of the computer module containment unit 50 is formed integrally with the part 20, rather than with part 10. In other words, in this version the computer module containment unit 50 is formed from two generally L-shaped parts, each of which provides two sides of the rectangular box structure. As before, the parts 10, 20 are removably fastened together by bolts 51.

CLAIMS

1. A containment system for equipment comprising at least a computer module and a display screen, the system comprising:
 - a first containment unit, comprising a plurality of sections removably fastened together to form a first enclosure for containing the computer module, with a plurality of fastening holes for allowing the first containment unit to be fastened to a fixed object, and with a pair of strengthening flanges extending parallel to each other in an outward direction; and
 - a second containment unit comprising a plurality of sections removably fastened together to form a second enclosure for containing the display screen, the second enclosure being tiltably mounted on a base to allow the position of the display screen to be adjusted, and the base having a plurality of fastening holes for allowing it to be fastened to a fixed object;
 - wherein the second containment unit is dimensioned to be nestable between the strengthening flanges of the first containment unit.
2. A containment system substantially as hereinbefore described with reference to the accompanying drawings.

ABSTRACT

A containment system comprises first and second containment units. The first containment unit comprises a plurality of sections removably fastened together to form a first enclosure for a computer module, with a plurality of fastening holes for allowing the first containment unit to be fastened to a fixed object, and with a pair of strengthening flanges extending parallel to each other in an outward direction. The second containment unit comprises a plurality of sections removably fastened together to form a second enclosure for a display screen, the second enclosure being tiltably mounted on a base to allow the position of the display screen to be adjusted, and the base having a plurality of fastening holes for allowing it to be fastened to a fixed object. The second containment unit is dimensioned to be nestable between the strengthening flanges of the first containment unit.

FIG. 1A

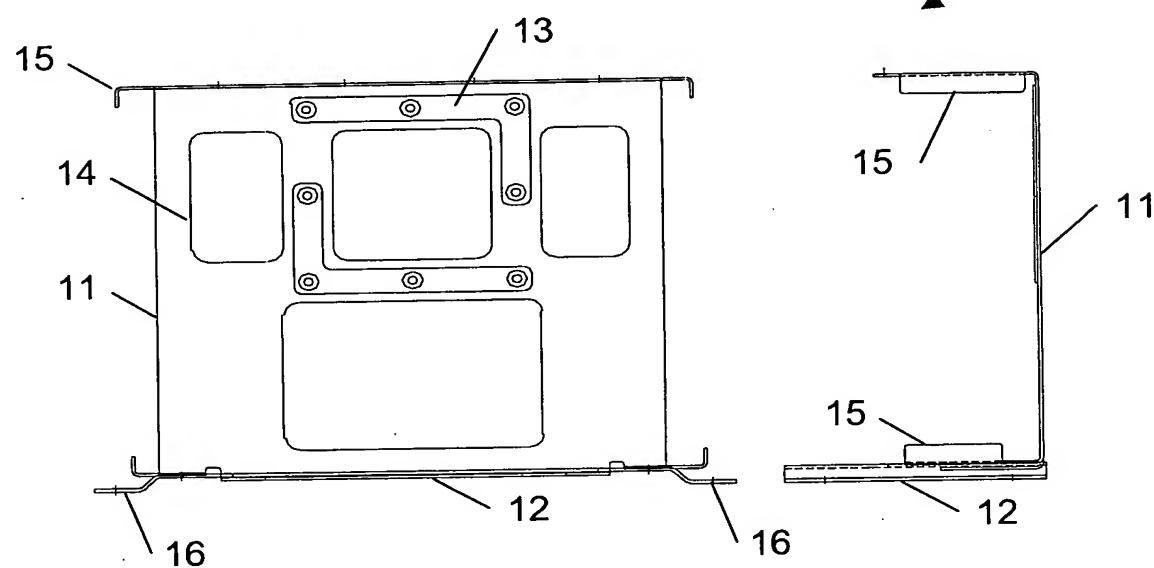
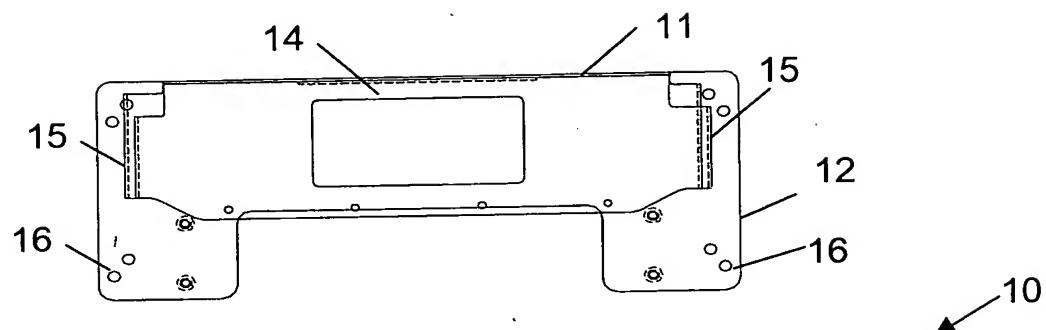
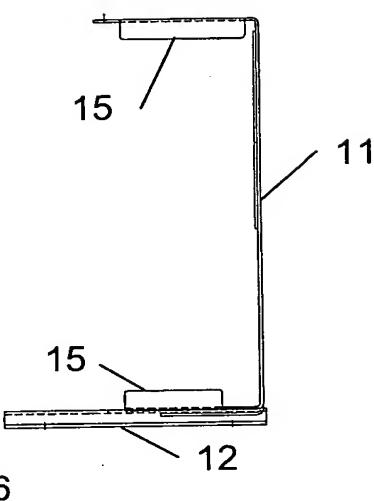


FIG. 1B

FIG. 1C



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FIG. 2A

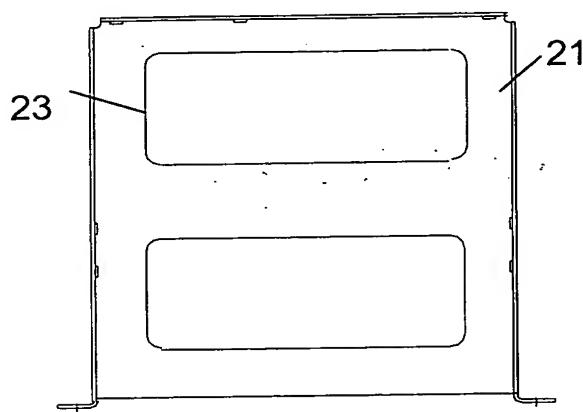
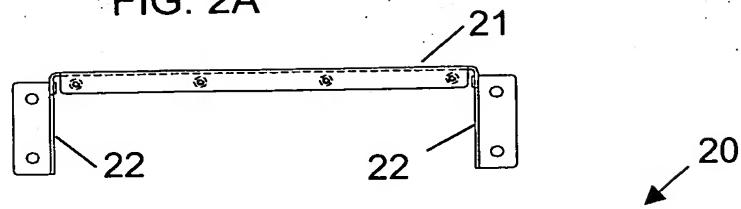


FIG. 2B

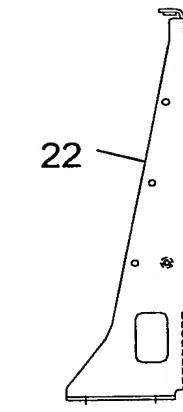


FIG. 2C

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FIG. 3A

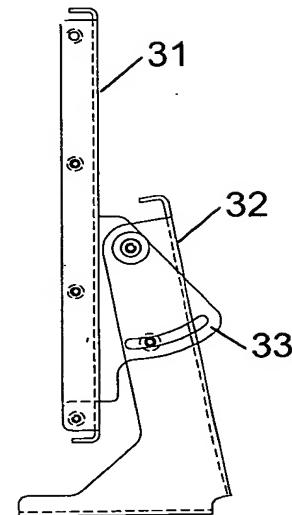
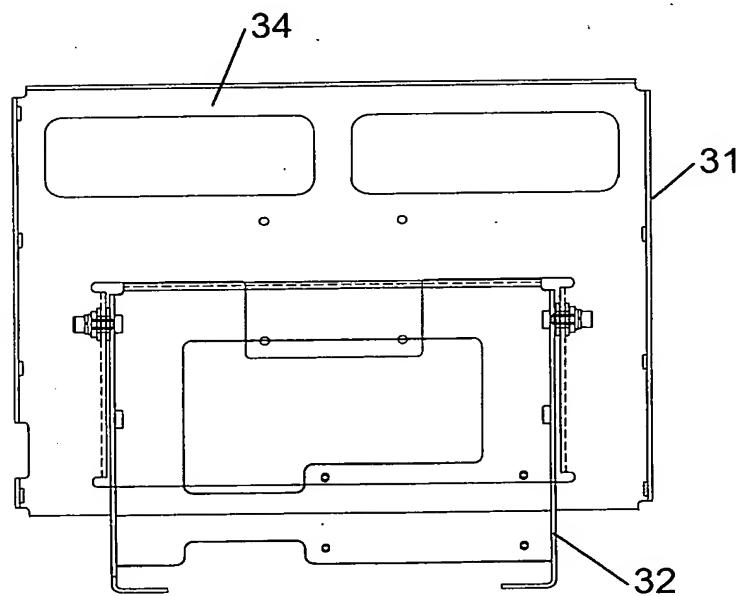
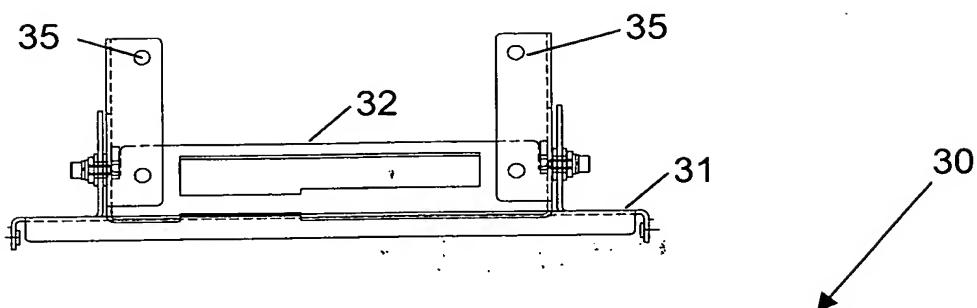


FIG. 3B

FIG. 3C

4/5

FIG. 4A

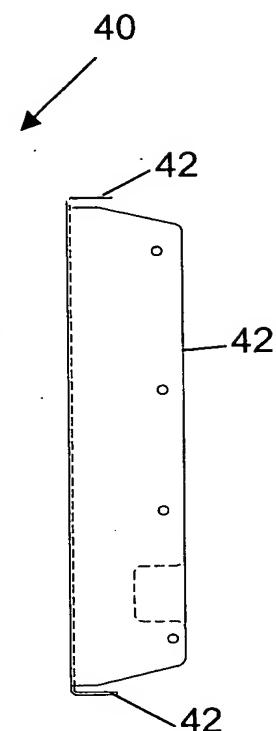
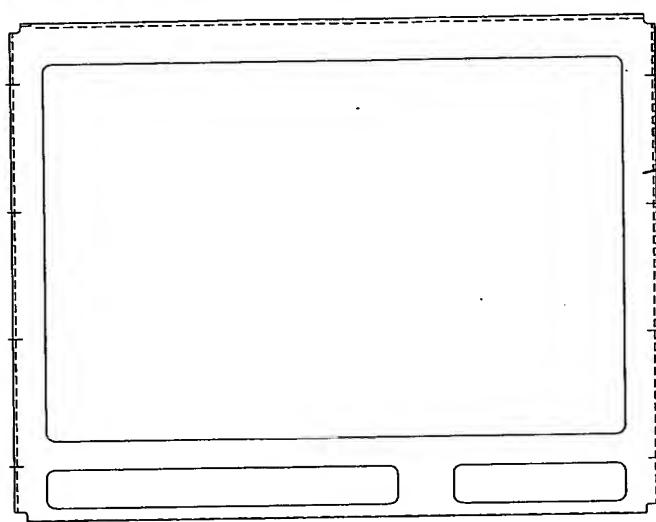
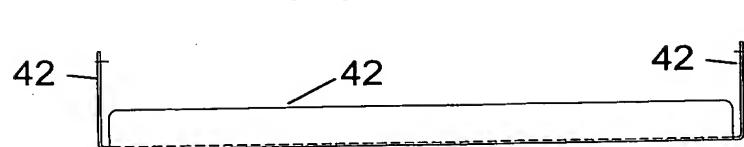


FIG. 4B

FIG. 4C

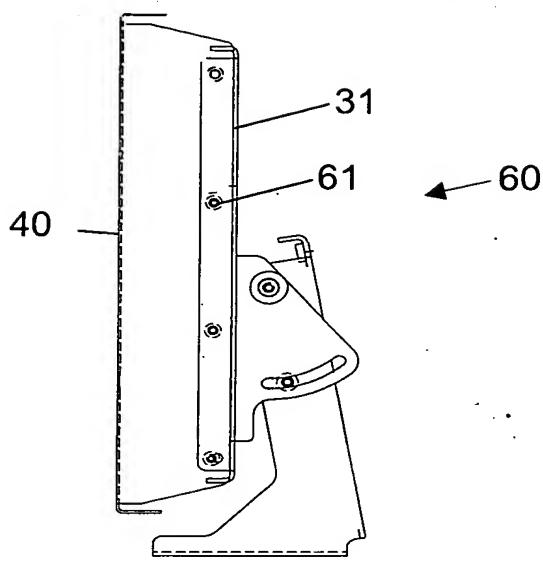


FIG. 6

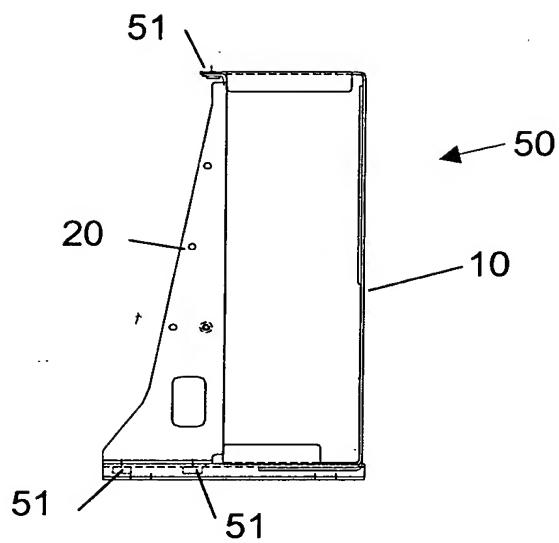


FIG. 5

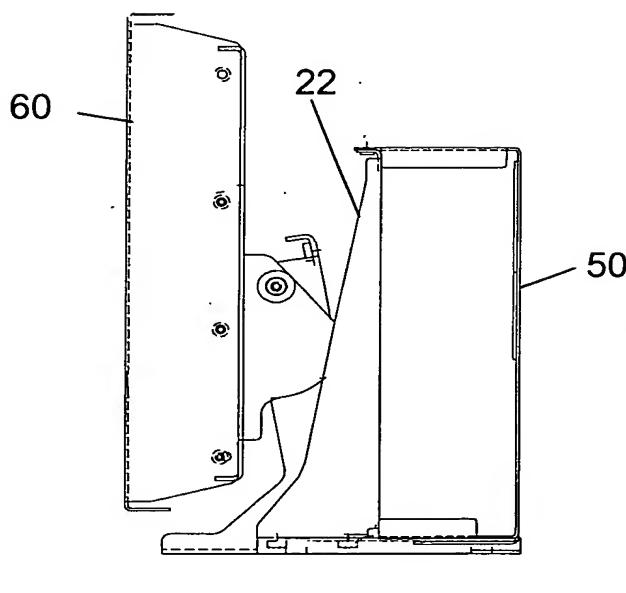


FIG. 7

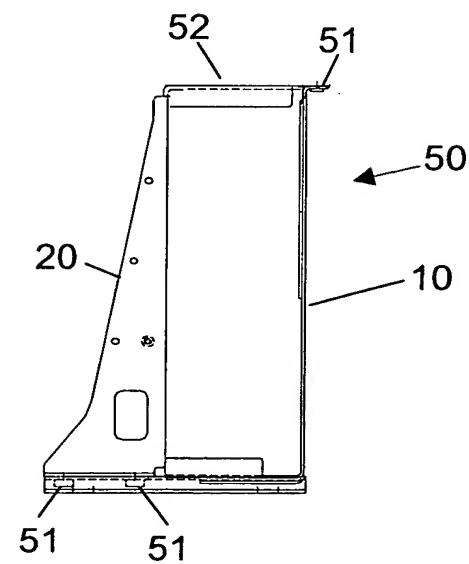


FIG. 8